



## ODYSSEUS

REMOTELY OPERATED VEHICLE (ROV)

### VEHICLE

#### DEPTH CAPABILITY:

0 to 6000 meters

#### DIMENSIONS WITH SCIENCE SKID:

55 1/2" (W) x 93" (L) x 83 1/4" (H)  
(141 x 236 x 211.5 cm)

#### WEIGHT IN AIR:

3128 lbs (1419 kg) with removable science skid

#### REMOVABLE SCIENCE SKID:

Hydraulic activated tray for samples and/or sensors and gear—available space 47 3/4" (W) x 32" (L) x 15" (H). Extends fully in front of ROV. Entire tray is accessible to manipulators

#### THRU FRAME LIFTING CAPACITY

Utilizing hydraulic load release - 2000 lbs  
Utilizing optional integrated lifting bridge with hydraulic stabs - 4000 lbs

#### SUBSEA NAVIGATION

Greensea INS, FOG, PNI Compass, Paro Depth Sensor, Trittech Altimeter, DVL, Super Seaking SONAR [1xBLUE OCTANS or PHINNS available upon request]

#### POWER (measured at shaft):

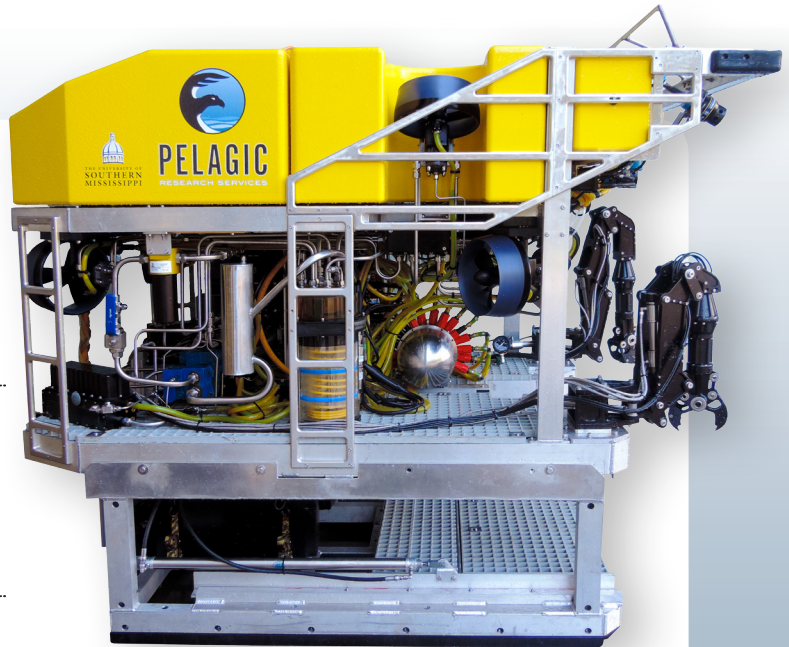
25 HP

#### HYDRAULICS

(Spare Hydraulic Circuits for tooling, etc.)  
3000 psi @ 10gpm

#### LIGHTING:

6 to 9 Deep Sea Power and Light Model SLS 5000.  
Additional lights may be added



#### MANIPULATOR:

Standard Configuration = Two, 5-function manipulators. ROV is configured to carry one or two Schilling Orion - 7-function manipulators

#### VOLTAGE:

24 DC, 12 DC, 5DC. (120 AC upon request)

### CAMERAS

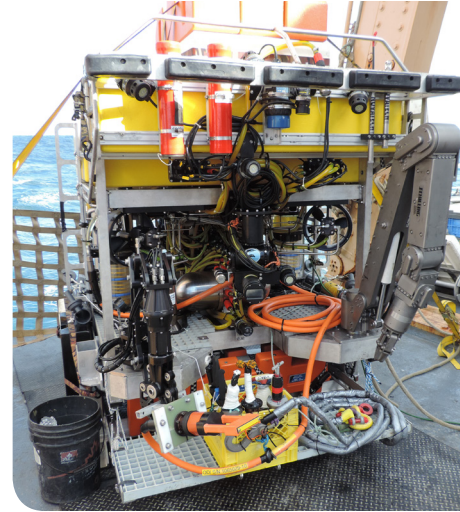
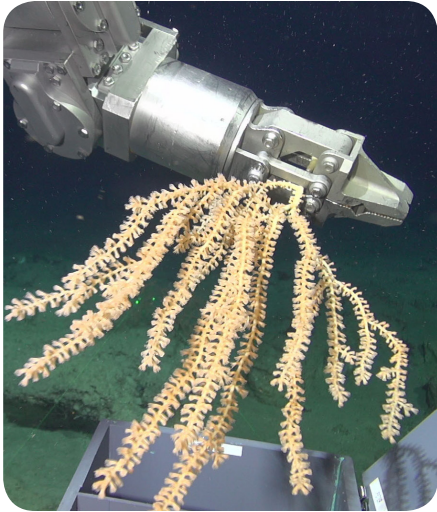
SubC Imaging 1CamAlpha HD Video and digital still camera, 6 Deep Sea Power and Light Standard Definition Color Multi – SeaCam, Color Wide-I SeaCam, Color Super Wide-I Sea Cam, BxW Wide-I SeaCam. (Additional HD, 4K and/or SD cameras are easily added.)

### THRUSTERS

The vehicle has a total of 7 thrusters. 4 thrusters provide accurate control of the vehicle in the lateral and rotational axes. 3 thrusters provide vertical control of the vehicle in the water column.

013118

# ODYSSEUS ROV System



## THE PERFECT CHOICE

ROV Odysseus is an easily transportable, extremely capable and highly affordable deep sea system that integrates into ships of opportunity and is available on a global basis. Whether supporting the installation and maintenance of ocean observation systems, surveying and performing light work tasks for industry, conducting video transects and/or biological and geological sampling, film operations, search and recovery, or exploration, Odysseus is the perfect choice.

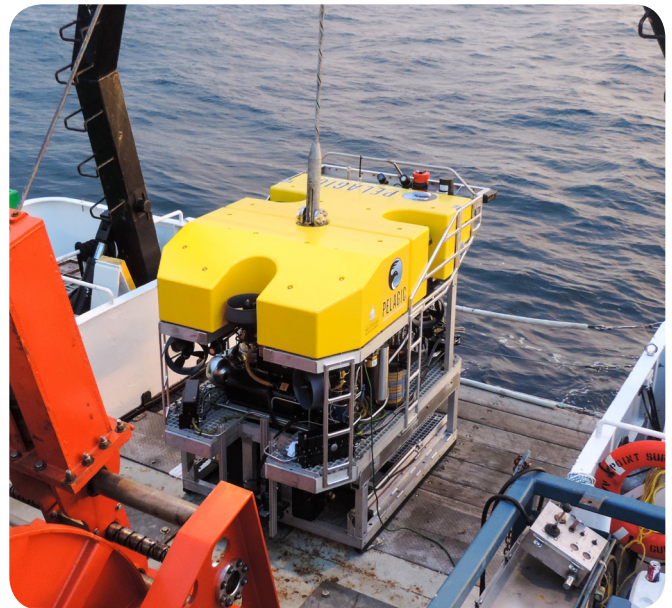
## SAMPLE TRAYS, TOOL SKIDS, AND SUPPORT FOR OCEAN OBSERVING SYSTEMS

Odysseus is equipped with a flexible tool/science skid. The basic science skid comes with a hydraulically controlled sliding tray. The tool/science skid is supported by spare hydraulic functions, pre-populated spare sensor bulkheads, spare fibers, and available power (DC, AC upon request) to meet the needs of most sampling equipment, additional cameras, customized and standard hydraulic tools, etc. Custom sample trays or tools (cable reels, etc.) are designed to mate to the ROV simply and efficiently.

The Odysseus science skid can be removed and the ROV can mate with sub-sea equipment packages to support ocean observing networks or other sub-sea installations. Utilizing the through frame lift capacity and two hydraulic load release mechanisms Odysseus can take on the toughest jobs quickly and efficiently.

## ODYSSEUS MISSION INTERFACE

Housed in the Odysseus Control Van, our mission interface provides state-of-the-art video and data handling along with vehicle control and dive management. ROV pilot, co-pilot, survey/navigation and video data control are located on the primary worktable. Additional seating for Chief Scientist/Dive Lead and other client personnel are provided. An option to establish the primary or additional mission management capabilities in interior ship spaces are easily accommodated.



*Odysseus utilizes University-National Oceanographic Laboratory System (UNOLS) standard .681 cable. One to two spare fibers are available for project use.*

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